

SUMMARY OF PLANT QUANTITIES (Furnish and Install)

	Common Name	Botanical Name	Size	Quantity
Deciduous Trees	WESTERN CATALPA	CATALPA SPECIOSA	2-1/2 IN.	3
	WASHINGTON HAWTHORN	CRATAEGUS PHAENOPYRUM	5 FT.	15
	RUSSIAN OLIVE	ELAEAGNUS ANGUSTIFOLIA	6 FT.	36
	MARSHALL SEEDLESS ASH	FRAXINUS PENNSYLVANICA 'MARSHALL'	2-1/2 IN.	12
	THORNLESS HONEYLOCUST	GLEDITSIA TRIACANTHOS INERMIS	1-1/2 IN.	6
	COTTONLESS COTTONWOOD	POPULUS DELTOIDES	8 FT.	20
Evergreen Trees	ENGELMANN SPRUCE	PICEA ENGELMANNI	6 FT.	7
	AUSTRIAN PINE	PINUS NIGRA	4 FT.	2
	AUSTRIAN PINE	PINUS NIGRA	6 FT.	8
	PONDEROSA PINE	PINUS PONDEROSA	6 FT.	1
	PONDEROSA PINE	PINUS PONDEROSA	8 FT.	2
Deciduous Shrubs	AMUR MAPLE	ACER GINNALA	4 FT.	37
	REDOSIER DOGWOOD	CORNUS STOLONIFERA	3 FT.	53
	BUSH CINQUEFOIL	POTENTILLA FRUTICOSA	18 IN.	29
	CHOKE CHERRY	PRUNUS VIRGINIANA DEMISSA	18 IN.	8
	STAGHORN SUMAC	RHUS TYPHINA	3 FT.	11
	COYOTE WILLOW	SALIX EXIGUA	3 FT.	16
Evergreen Shrubs	MOUNTAIN COMMON JUNIPER	JUNIPERUS COMMUNIS SAXATILIS	2 FT.	40
	PFITZER JUNIPER	JUNIPERUS CHINENSIS PFITZERIANA	2 FT.	12
Groundcovers	CROWN VETCH ▲	CORONILLA VARIA	#1	1971
▲ NOTE: NO SUBSTITUTION OF CROWN VETCH PERMITTED. LOCAL "OFF-THE-SHELF" QUANTITIES MAY BE LIMITED. THE CONTRACTOR MAY NEED TO PLACE AN EARLY ORDER WITH A SUPPLIER TO ACQUIRE QUANTITIES REQUIRED FOR THIS PROJECT.				
Miscellaneous				

SUMMARY OF LANDSCAPING QUANTITIES

Item No. & Description	Pay Unit-Rate¹	Quantity	Remarks
212 SEEDING (NATIVE)	ACRE--60 PLS LBS./ACRE	5.35 ACRES	SEE NOTES 1,3&4
212 SEEDING (LAWN)	ACRE--60 PLS LBS./ACRE	5.40 ACRES	SEE NOTES 2,3&4
212 SOD	SQUARE FOOT	134,000 SQ.FT.	SEE NOTE 5
213 MULCHING (WOOD CHIP)	CUBIC FOOT	15,370 CU.FT.	FOR PLANTING BEDS
213 MULCHING (HYDRAULIC)	TON --1 TON/ACRE	10.75 TONS	FOR ALL SEEDED AREAS
213 METAL LANDSCAPE BORDER (3/16 x 10 INCH)	LIN.FT.	2,675 LIN.FT.	FOR PLANTING BEDS
213 EROSION BALES	EACH	100 BALES	
214 PLANTS	EACH	SEE SUMMARY OF PLANT QUANTITIES	
506 PLASTIC FILTER CLOTH	SQUARE YARD	4247 SQ.YDS	FOR PLANTING BEDS

(FOR INFORMATION ONLY)

SEEDING (NATIVE) - Furnish and Install

Common Name	Botanical Name	PLS.LBS./Acres	Project PLS.LBS. *
FALCON TALL FESCUE	FESTUCA ARVUIDINACEA 'FALCON'	25	133.75
REUBEN CANADA BLUEGRASS	POA COMPRESSA 'REUBEN'	10	53.50
LINCOLN SMOOTH BROME	BROMUS INERMIS 'LINCOLN'	25	133.75
TOTAL ACREAGE SEEDED 5.35 ACRES		TOTAL 60	321.00*

* FOR INFORMATION ONLY

SEEDING (LAWN) - Furnish and Install

Common Name¹	Botanical Name	PLS.LBS./Acre¹	Project PLS.LBS. *
A-34 BLUEGRASS	POA PRATENSIS 'A-34'	20	108.00
FYLKING BLUEGRASS	POA PRATENSIS 'FYLKING'	20	108.00
GLADE BLUEGRASS	POA PRATENSIS 'GLADE'	10	54.00
MANHATTAN II PERENNIAL RYE	LOLIUM PERENNE 'MANHATTAN II'	10	54.00
TOTAL ACREAGE SEEDED 6.40 ACRES		TOTAL 60	324.00*

* FOR INFORMATION ONLY

AS CONSTRUCTED		
NO REVISIONS <input type="checkbox"/>	REVISED <input type="checkbox"/>	VOID <input type="checkbox"/>

FED.ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IR 25-2(187)	50	170

DESIGN <u>ILP</u>	LANDSCAPING SUMMARY	L-1
DATE <u>1/88</u>		

GENERAL NOTES

- SEEDING (NATIVE) SHALL INCLUDE THE APPLICATION OF FERTILIZER AND NATIVE SEED COMPOSED OF THE SPECIES AND RATES LISTED BELOW. FERTILIZER FOR SEEDING (NATIVE) SHALL BE DIAMMONIUM PHOSPHATE WITH AN AVAILABLE NUTRIENT ANALYSIS OF 18N-46P-OK APPLIED AT A RATE OF 400 LBS./ACRE. THE FERTILIZER SHALL BE TILLED INTO THE TOP 4 INCHES OF SOIL (NOT HYDRO-FERTILIZED) PRIOR TO SEEDING. SEEDING (NATIVE) SHALL BE APPLIED USING HYDRAULIC SEEDING EQUIPMENT IN A SLURRY MIX THAT ENSURES UNIFORM DISTRIBUTION OF THE SEED ON THE SLOPES. A HYDROMULCH CONSISTING OF WOOD CELLULOSE FIBERS AND TACKIFIER (BINDER) SHALL BE APPLIED IMMEDIATELY FOLLOWING HYDROSEEDING.
- SEEDING (LAWN) SHALL INCLUDE THE APPLICATION OF FERTILIZER AND LAWN SEED COMPOSED OF THE SPECIES AND RATES LISTED BELOW. FERTILIZER FOR SEEDING (LAWN) SHALL BE APPLIED IN TWO PHASES. FIRST, TRIPLE SUPERPHOSPHATE WITH AN AVAILABLE NUTRIENT ANALYSIS OF 0N-46P-OK SHALL BE APPLIED AT A RATE OF 200 LBS./ACRE. THIS FERTILIZER SHALL BE TILLED INTO THE TOP 4 INCHES OF SOIL PRIOR TO SEEDING. SECONDLY, A STANDARD COMMERCIAL FERTILIZER WITH AN AVAILABLE NUTRIENT ANALYSIS OF 20N-10P-5K SHALL BE APPLIED AT A RATE OF 200 LBS./ACRE. THIS FERTILIZER SHALL BE BROADCAST (NOT HYDROFERTILIZED) AFTER GERMINATION AT THE DIRECTION OF THE ENGINEER. SEEDING (LAWN) SHALL BE APPLIED USING HYDRAULIC SEEDING EQUIPMENT IN A SLURRY MIX THAT ENSURES UNIFORM DISTRIBUTION OF THE SEED ON THE SLOPES. A HYDROMULCH CONSISTING OF WOOD CELLULOSE FIBERS AND TACKIFIER (BINDER) SHALL BE APPLIED IMMEDIATELY FOLLOWING HYDROSEEDING.
- MULCHING (HYDRAULIC) SHALL INCLUDE THE APPLICATION OF WOOD CELLULOSE FIBERS AND TACKIFIER (NOT PAID FOR SEPARATELY) OVER ALL SEEDING (NATIVE) AND (LAWN) AREAS. RATE OF HYDRAULIC WOOD CELLULOSE MULCH SHALL BE 1 TON/ACRE AND TACKIFIER (BINDER) RATE SHALL BE 100 LBS/ACRE.
- HYDRAULIC SEEDING AND MULCHING EQUIPMENT SHALL BE SIZED TO CONFORM TO THE QUANTITY AND SIZE OF SEED OR MULCH APPLIED SO AS TO MAXIMIZE EQUIPMENT PERFORMANCE. MINIMIZE WASTE OF MATERIALS, CONTROL SPRAY, AND MEET COVERAGE SPECIFICATIONS.
- SOD SHALL INCLUDE THE APPLICATIONS OF FERTILIZERS DESCRIBED FOR SEEDING (LAWN) AND THE INSTALLATION OF BLUEGRASS SOD AS SHOWN ON THE PLANS.
- ALL SHRUBS AND TREES SHALL RECEIVE FERTILIZER TABLETS AS DESCRIBED IN THE 214 SPECIAL PROVISION. APPROXIMATELY 1076 TABLETS WILL BE REQUIRED FOR THIS PROJECT. THESE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PRICE OF THE PLANTS.
- WATER USED FOR HYDRAULIC SEEDING AND MULCHING, AND FOR PLANTINGS AND SOD WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. ALL PLANTINGS (GRASS, SHRUBS, TREES, ETC.) IN IRRIGATED AREAS SHALL BE PLANTED IN COORDINATION WITH THE IRRIGATION SYSTEM SO IRRIGATION CAN BEGIN IMMEDIATELY FOLLOWING PLANTING.
- NO TREES, OUTSIDE OF PLANTING BEDS SHALL BE PLANTED CLOSER THAN 15 FEET TO A FENCE OR WITHIN 30 FEET FROM THE EDGE OF TRAVEL LANE.
- THE HEALTH AND MAINTENANCE (WATERING) OF ALL EXISTING TREES AND SHRUBS DESIGNATED TO REMAIN (SEE GRADING AND PLANTING PLANS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR DURING THE CONSTRUCTION PERIOD. LOSS OF TREES OR SHRUBS BECAUSE OF NEGLIGENCE WILL RESULT IN REPLACEMENT IN KIND AND SIZE BY THE CONTRACTOR AT THEIR OWN EXPENSE.

SUMMARY OF IRRIGATION QUANTITIES (Furnish and Install)

REVISIONS

6-5-86 Rev. Controllers, Quantities, Note J.K.K.

AS CONSTRUCTED

NO REVISIONS REVISD VOID

FED. ROAD REGION	DIVISION	PROJECT NO.	SHEET NO.	SHEET TOTAL
100	100	IR 25-2 (187)	53	170

DESIGN D.S.
DATE 12/85

IRRIGATION SUMMARY

I-1

Symbol	Item No.	Description	Unit	Riser	Pattern	GPM	PRESSURE	SPACING	RADIUS	SHEET QUANTITIES			PLAN QUANTITY	FINAL QUANTITY
							LBS	FEET	FEET	I-3	I-4	I-5		
SPRINKLERS														
○	623	1 Inch Pop-up Rotary Sprinkler	Each	Plastic	360°	13.5	50	55	55		49		49	
⊙	623	1 Inch Pop-up Rotary Sprinkler	Each	Plastic	270°	13.5	50	55	55		5		5	
●	623	1 Inch Pop-up Rotary Sprinkler	Each	Plastic	180°	13.5	50	55	55		72	3	75	
● ₉₀	623	1 Inch Pop-up Rotary Sprinkler	Each	Plastic	90°	6.7	50	50	50		3		3	
● ₄₅	623	1 Inch Pop-up Rotary Sprinkler	Each	Plastic	45°	6.7	50	50	50		3		3	
□	623	1 Inch Pop-up Rotary Sprinkler	Each	Galv. Steel	360°	11.4	50	50	50		7	3	10	
■	623	1 Inch Pop-up Rotary Sprinkler	Each	Galv. Steel	180°	11.4	50	50	50		46	7	53	
■ ₉₀	623	1 Inch Pop-up Rotary Sprinkler	Each	Galv. Steel	90°	7.1	50	46	46			1	1	
△	623	Shrubbery Spray and Flood Irrigator	Each	Plastic	360°	4.8	50	30	30		34	2	36	
▲	623	Shrubbery Spray and Flood Irrigator	Each	Plastic	180°	2.4	50	30	30			7	7	

LEGEND

Toro 644-02-42
Toro 643-02-42
Toro 642-02-42
Toro 641-02-40
Toro 640-02-40
Buckner 17080-15
Buckner 17081-15
Buckner 17081-12
Toro XP-300S-F-5.0
Toro XP-300S-H-5.0

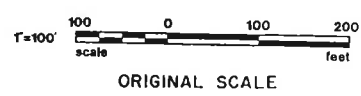
MISCELLANEOUS ITEMS

	604	Meter Vault	Each							2			2	
	619	6 Inch Cast Iron Pipe	Lin. Ft.							90			90	
(R-1)	619	18 Inch Welded Steel Pipe (Jockey)	Lin. Ft.							660			660	
	619	1 Inch Plastic Pipe (PE)	Lin. Ft.								4320	490	4810	
	619	1 1/2 Inch Plastic Pipe (PE)	Lin. Ft.								3185	205	3390	
	619	2 Inch Plastic Pipe (PE)	Lin. Ft.								1695	130	1825	
	619	2 Inch Plastic Pipe (PVC)	Lin. Ft.								140		140	
	619	3 Inch Plastic Pipe (PVC)	Lin. Ft.								4390	240	4630	
	619	4 Inch Plastic Pipe (PVC)	Lin. Ft.								155		155	
	619	6 Inch Plastic Pipe (PVC)	Lin. Ft.							305	535		840	
	619	8 Inch Plastic Pipe (PVC)	Lin. Ft.							1180	70		1250	
	623	6 Inch Backflow Preventer	Each							1			1	
X.O.V.	623	1 Inch Drain Valve	Each								6	2	8	
⌘	623	2 Inch Automatic Control Valve	Each								35	4	39	
	623	Control Wire 24 Volt	Lin. Ft.								13170	560	13730	
■ a.c.	623	1 Inch Quick-Coupler Valve	Each								8		8	
⊙	623	3 Inch Gate Valve	Each								8		8	
⊙	623	6 Inch Gate Valve	Each							8	3		11	
⊙	623	8 Inch Gate Valve	Each							3			3	
	623	6 Inch Water Meter	Each							1			1	
E 6	623	6 Station Automatic Controller	Each								1		1	
(R-1) F 8	623	8 Station Automatic Controller	Each								1		1	
(R-1) B,C,D 12	623	12 Station Automatic Controller	Each								3		3	

GENERAL NOTES

- THE CONTRACTOR WILL NOT INTERRUPT SPRINKLER SYSTEM SERVICE BETWEEN APRIL AND OCTOBER. THE NEW 6" WATER LINE SHALL BE CONSTRUCTED IN THE AREA OF RAMPS 'E' AND 'H' BEFORE CONSTRUCTION OF THOSE RAMPS IS BEGUN BY OTHERS. CONNECTIONS TO EXISTING LINES WILL BE DONE AFTER OCTOBER.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE IMMEDIATE REPAIR AND MAINTENANCE OF BROKEN OR DAMAGED LINES THAT IRRIGATE THE NE, NW AND SE QUADRANTS. THIS WORK AND WORK ASSOCIATED WITH CONNECTING THE NEW MAIN TO EXISTING LINES WILL BE PAID FOR UNDER THE FORCE ACCOUNT ITEM "REPAIR AND MAINTENANCE OF EXISTING IRRIGATION SYSTEM".
- THE NEW 6" WATER TAP FEE AND ASSOCIATED CONSTRUCTION WILL BE PAID FOR UNDER THE FORCE ACCOUNT ITEM "RELOCATE WATER TAP".
- THE EXISTING 30" WATER MAIN SHALL BE ABANDONED AND METER VAULT SHALL BE REMOVED AFTER COMPLETION OF NEW IRRIGATION SYSTEM.
- THE NEW WATER TAP, METER, VAULT, VALVES, MANHOLES, THRUST BLOCKS, ETC., SHALL CONFORM TO THE LATEST REVISION OF THE "DENVER WATER DEPARTMENT ENGINEERING STANDARDS".
- ALL PIPE SIZES SHOWN ON THE PLANS SHALL BE AS FOLLOWS: 1", 1 1/2" AND 2" LATERALS SHALL BE POLYETHYLENE; 3", 4", 6" AND 8" SHALL BE POLYVINYL CHLORIDE PRESSURE CLASS 200, EXCEPT WHERE SHOWN ON THE PLANS.
- SPRINKLER SYSTEM INSTALLATION SHALL BE COORDINATED WITH ALL OTHER UTILITY, LIGHTING AND PLANTING INSTALLATION. IRRIGATION LINES SHALL NOT BE INSTALLED WITHIN 10' OF PIER FACES, LIGHT STANDARDS, TREES, ETC. SPRINKLERS SHALL BE PLACED 4 FEET FROM EDGE OF SHOULDER OR PIER FACE WHERE SHOWN ON THE PLANS AND A MINIMUM OF 10 FEET FROM TREES OR LIGHT STANDARDS.
- (R-1) AUTOMATIC CONTROLLERS B,C, AND D SHALL BE "RAIN MASTER RMIZE-OD SERIES" AS MADE BY RAIN MASTER IRRIGATION SYSTEMS, OR APPROVED EQUAL.

(R-1)



AS CONSTRUCTED

NO REVISIONS

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FED. ROAD REGION

VIII

DIVISION

COLO.

PROJ. NO.

IR25-2(208)

SHEET NO.

50

SHEET TOTALS

DESIGN

DATE

LANDSCAPE SUMMARY

L-1

SUMMARY OF PLANT QUANTITIES - Furnish and Install

Common Name	Botanical Name	Size	Quantity
Redosier Dogwood	Cornus Stolonifera	5 Foot	15
Washington Hawthorn	Crataegus Phaenopyrum	5 Foot	15
Marshall Seedless Ash	Fraxinus Pennsylvanica Marshall	2 1/2 Inch Caliper	19
Jackman Bush Cinquefoil	Potentilla Fruticosa "Jackman"	18 Inch	100
Shrub Rose	Scarlet Meidland	No. 1 Gallon	175
Wood's Rose	Rosa Woodsii	12 Inch	65
Wayfaringtree Viburnum	Viburnum Lantana	3 Foot	21
FLOWERING PERENNIALS			
Oxeye Daisy	Chrysanthemum Leucanthemum	No. 1 Gallon	275
Blanketflower	Gallardia Aristata	No. 1 Gallon	210
Daylilies*	Hemerocallis Sp.	No. 1 Gallon	1525
Bearded Iris	Iris Germanica varietles	No. 1 Gallon	875
Purple Aster	Aster Porteri 'Wartburg Star'	No. 1 Gallon	2840

SEED MIX - Furnish and Install

- For Information Only -			
Common Name	Botanical Name	P.L.S. LBS./Acre	Project Total
Falcon Tall Fescue	Festuca Arundinacea 'Falcon'	25	150
Reuben Canada Bluegrass	Poa Compressa 'Reuben'	10	60
Lincoln Smooth Brome	Bromus Inermis 'Lincoln'	25	150
Total		60 P.L.S.LBS.	360 P.L.S.LBS.
Total Acres		6.0	

*Daylily species shall include:

- 508 each of a variety with early-season bloom time and red to red-orange colors.
- 508 each of a variety with mid-season bloom time and yellow colors.
- 509 each of a variety with late-season bloom time and red, orange or yellow colors.

1525 total

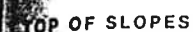
Approval by District Landscape Architect for all Daylily species mandatory prior to installation.

SUMMARY OF LANDSCAPE QUANTITIES

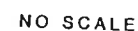
Item No. & Description	Pay Unit-Rate	Quantity	Remarks
212 Seeding (Lawn)	Acre - 60 Lbs/Acre	6.0	See below for species.
213 Mulching (Hydraulic)	Acre - 11 Ton/Acre	6.0	See Notes 2, 3 & 4.
213 Erosion Bales	Each	50	For temporary erosion control.
213 Soil Retention Blanket (Jute)	Square Yard	6653	See Note 7.
213 Metal Landscape Border (3/16 X 10 Inch)	Lin. Foot	1830	For Planting Beds
213 Mulching (Wood Chip)	Cubic Foot	11625	For Planting Beds
214 Flowering Perennial (No. 1 Gallon size)	Each	5725	See Summary of Plant Quantities for species
420 Geotextile (Weed Barrier)	Square Yard	4640	For Planting Beds
610 Median Cover Material (Stone)	Ton	227	See Cobblestone Detail

GENERAL NOTES

- SEEDING (LAWN) SHALL INCLUDE THE APPLICATION OF FERTILIZER AND SEED COMPOSED OF THE SPECIES AND RATES LISTED BELOW. FERTILIZER FOR SEEDING (LAWN) SHALL BE DIAMMONIUM PHOSPHATE WITH AN AVAILABLE NUTRIENT ANALYSIS OF 18N-46P-0K APPLIED AT A RATE OF 400 LBS./ACRE. THE FERTILIZER SHALL BE TILLED INTO THE TOP 4 INCHES OF SOIL (NOT HYDROFERTILIZED) PRIOR TO SEEDING. SEEDING (LAWN) SHALL BE APPLIED USING HYDRAULIC SEEDING EQUIPMENT IN A SLURRY MIX THAT ENSURES UNIFORM DISTRIBUTION OF THE SEED ON THE SLOPES. A HYDROMULCH CONSISTING OF WOOD CELLULOSE FIBERS AND TACKIFIER (BINDER) SHALL BE APPLIED IMMEDIATELY FOLLOWING HYDROSEEDING.
- MULCHING (HYDRAULIC) SHALL INCLUDE THE APPLICATION OF WOOD CELLULOSE FIBERS AND TACKIFIER (NOT PAID FOR SEPARATELY) OVER ALL SEEDING (LAWN) AREAS. RATE OF HYDRAULIC WOOD CELLULOSE MULCH SHALL BE 1 TON /ACRE AND TACKIFIER (BINDER) RATE SHALL BE 100 LBS./ACRE.
- HYDRAULIC SEEDING AND MULCHING EQUIPMENT SHALL BE SIZED TO CONFORM TO THE QUANTITY AND SIZE OF SEED OR MULCH APPLIED SO AS TO MAXIMIZE EQUIPMENT PERFORMANCE, MINIMIZE WASTE OF MATERIALS, CONTROL SPRAY, AND MEET COVERAGE SPECIFICATIONS.
- WATER USED FOR HYDRAULIC SEEDING AND MULCHING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK.
- SEEDING (LAWN) LIMITS SHALL INCLUDE ALL DESIGNATED AREAS ON SHEETS G-1 & G-2, ALL AREAS DISTURBED BETWEEN THE BIKEPATH AND I-25 ALONG THE AUXILIARY LANE CONSTRUCTION (APPROX. 0.96 ACRE) AND ANY OTHER AREA DISTURBED BY CONSTRUCTION OR AT THE DIRECTION OF THE ENGINEER.
- THE HEALTH AND MAINTENANCE (WATERING) OF ALL EXISTING TREES AND SHRUBS DESIGNATED TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR DURING THE CONSTRUCTION PERIOD. LOSS OF TREES OR SHRUBS BECAUSE OF NEGLECT WILL RESULT IN REPLACEMENT IN KIND AND SIZE BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- SOIL RETENTION BLANKET (JUTE) SHALL BE APPLIED OVER SEEDED AND MULCHED AREAS AS DESIGNATED ON THE PLANS AND SHALL INCLUDE THE ENTIRE AREA BETWEEN THE BIKEPATH AND I-25 ALONG THE AUXILIARY LANE CONSTRUCTION (APPROX. 4690 SQ. YDS.).



FLAT OR BOTTOM OF SLOPES



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3



NO SCALE

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NO SCALE

AS CONSTRUCTED

NO REVISIONSREVISEDVOID

FED. ROAD REGION

VIII

DESIGN

DATE

PROJ. NO.

SHEET NO.

60

SHEET TOTALS

1-2

SUMMARY OF PLANT QUANTITIES

COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY
PURPLE ASH	FRAXINUS AUTUMN PURPLE	.4 IN. CALIPER	11.

SUMMARY OF LANDSCAPING QUANTITIES

ITEM NO. & DESCRIPTION	PAY UNIT	QUANTITY	REMARKS
212 SEEDING (NATIVE)	ACRE	5.0 ACRES	SEE BELOW FOR SPECIES AND RATE
212 SEEDING (LAWN)	ACRE	2.0 ACRES	SEE BELOW FOR SPECIES AND RATE
212 SOD	SQUARE FOOT	160,000 sq. ft.	
213 MULCHING (HYDRAULIC)	ACRE	7.0 ACRES	RATE = 1 TON/ACRE
213 EROSION BALES	EACH	50	FOR TEMPORARY EROSION CONTROL
214 PLANTS	EACH	11	SEE LIST OF PLANT QUANTITIES
215 TRANSPLANT TREE (3 TO 6 INCH)	EACH	1	T6
215 TRANSPLANT TREE (OVER 6 INCH)	EACH	19	

GENERAL

- SEEDING (NATIVE) SHALL INCLUDE THE APPLICATION OF FERTILIZER AND NATIVE SEED RATES LISTED BELOW. FERTILIZER SHALL BE DIAMMONIUM PHOSPHATE WITH AN AVAILABLE NUTRIENT ANALYSIS OF 18N-46P-400 LBS./ACRE. THE FERTILIZER SHALL BE APPLIED TO THE TOP 4 INCHES OF SOIL (NOT TO SEEDING). SEEDING (NATIVE) SHALL INCLUDE THE APPLICATION OF HYDRAULIC SEEDING EQUIPMENT IN A SLURRY MIX THAT ENSURES UNIFORM DISTRIBUTION OF SEED ON THE SLOPES. A HYDROMULCH CONSISTING OF WOOD CELLULOSE FIBERS AND TACKIFIER (BINDER) SHALL BE APPLIED IMMEDIATELY FOLLOWING HYDROSEEDING.
- SEEDING (LAWN) SHALL INCLUDE THE APPLICATION OF FERTILIZER AND LAWN SEED COMPOSED OF THE SPECIES AND RATES LISTED BELOW. FERTILIZER FOR SEEDING (LAWN) SHALL BE APPLIED IN TWO PHASES. FIRST, TRIPLE SUPER-PHOSPHATE WITH AN AVAILABLE NUTRIENT ANALYSIS OF 0N-46P-0K SHALL BE APPLIED AT A RATE OF 200 LBS./ACRE. THIS FERTILIZER SHALL BE TILLED INTO THE TOP 4 INCHES OF SOIL PRIOR TO SEEDING. SECONDLY, A STANDARD COMMERCIAL FERTILIZER WITH AN AVAILABLE NUTRIENT ANALYSIS OF 20N-10P-3K SHALL BE APPLIED AT A RATE OF 200 LBS./ACRE. THIS FERTILIZER SHALL BE BROADCAST (NOT HYDROFERTILIZED) AFTER GERMINATION AT THE DIRECTION OF THE ENGINEER. SEEDING (LAWN) SHALL BE APPLIED USING HYDRAULIC SEEDING EQUIPMENT IN A SLURRY MIX THAT ENSURES UNIFORM DISTRIBUTION OF THE SEED ON THE SLOPES. A HYDROMULCH CONSISTING OF WOOD CELLULOSE FIBERS AND TACKIFIER (BINDER) SHALL BE APPLIED IMMEDIATELY FOLLOWING HYDROSEEDING.
- MULCHING (HYDRAULIC) SHALL INCLUDE THE APPLICATION OF WOOD CELLULOSE FIBERS AND TACKIFIER (NOT PAID FOR SEPARATELY) OVER ALL SEEDING (NATIVE) AND (LAWN) AREAS. RATE OF HYDRAULIC WOOD CELLULOSE MULCH SHALL BE 1 TON/ACRE AND TACKIFIER (BINDER) RATE SHALL BE 100 LBS/ACRE.
- HYDRAULIC SEEDING AND MULCHING EQUIPMENT SHALL BE SIZED TO CONFORM TO THE QUANTITY AND SIZE OF SEED OR MULCH APPLIED SO AS TO MAXIMIZE EQUIPMENT PERFORMANCE, MINIMIZE WASTE OF MATERIALS, CONTROL SPRAY, AND MEET COVERAGE SPECIFICATIONS.
- SOD SHALL INCLUDE THE APPLICATIONS OF FERTILIZERS DESCRIBED FOR SEEDING (LAWN) AND THE INSTALLATION OF BLUEGRASS SOD AS SHOWN ON THE PLANS.
- ALL NEW TREES SHALL RECEIVE FERTILIZER TABLETS AS DESCRIBED IN THE 214 SPECIAL PROVISION. APPROXIMATELY 44 TABLETS WILL BE REQUIRED FOR THIS PROJECT. THESE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PRICE OF THE PLANTS.
- WATER USED FOR HYDRAULIC SEEDING AND MULCHING, AND FOR PLANTINGS AND SOD WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE WORK. ALL PLANTINGS (GRASS, SHRUBS, TREES, ETC.) IN IRRIGATED AREAS SHALL BE PLANTED IN COORDINATION WITH THE IRRIGATION SYSTEM SO IRRIGATION CAN BEGIN IMMEDIATELY FOLLOWING PLANTING.
- THE HEALTH AND MAINTENANCE (WATERING) OF ALL EXISTING TREES AND SHRUBS DESIGNATED TO REMAIN (SEE GRADING AND PLANTING PLANS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR DURING THE CONSTRUCTION PERIOD. LOSS OF TREES OR SHRUBS BECAUSE OF NEGLECT WILL RESULT IN REPLACEMENT IN KIND AND SIZE BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- REFER TO 215 STANDARD SPECIFICATION FOR THE FERTILIZATION REQUIREMENTS OF THE TRANSPLANTED PLANT MATERIALS.

SEED MIX

SEEDING (LAWN)

Furnish and Install

COMMON NAME	BOTANICAL NAME	PLS. LBS./ACRES	PROJECT PLS. LBS.
A-34 BLUEGRASS	POA PRATENSIS "A-34"	20	40
FYLKING BLUEGRASS	POA PRATENSIS "FYLKING"	20	40
GLADE BLUEGRASS	POA PRATENSIS "GLADE"	10	20
MANHATTAN II PERENNIAL RYE	LOLIUM PERENNE "MANHATTAN II"	10	20
TOTAL		60	120

SEED MIX

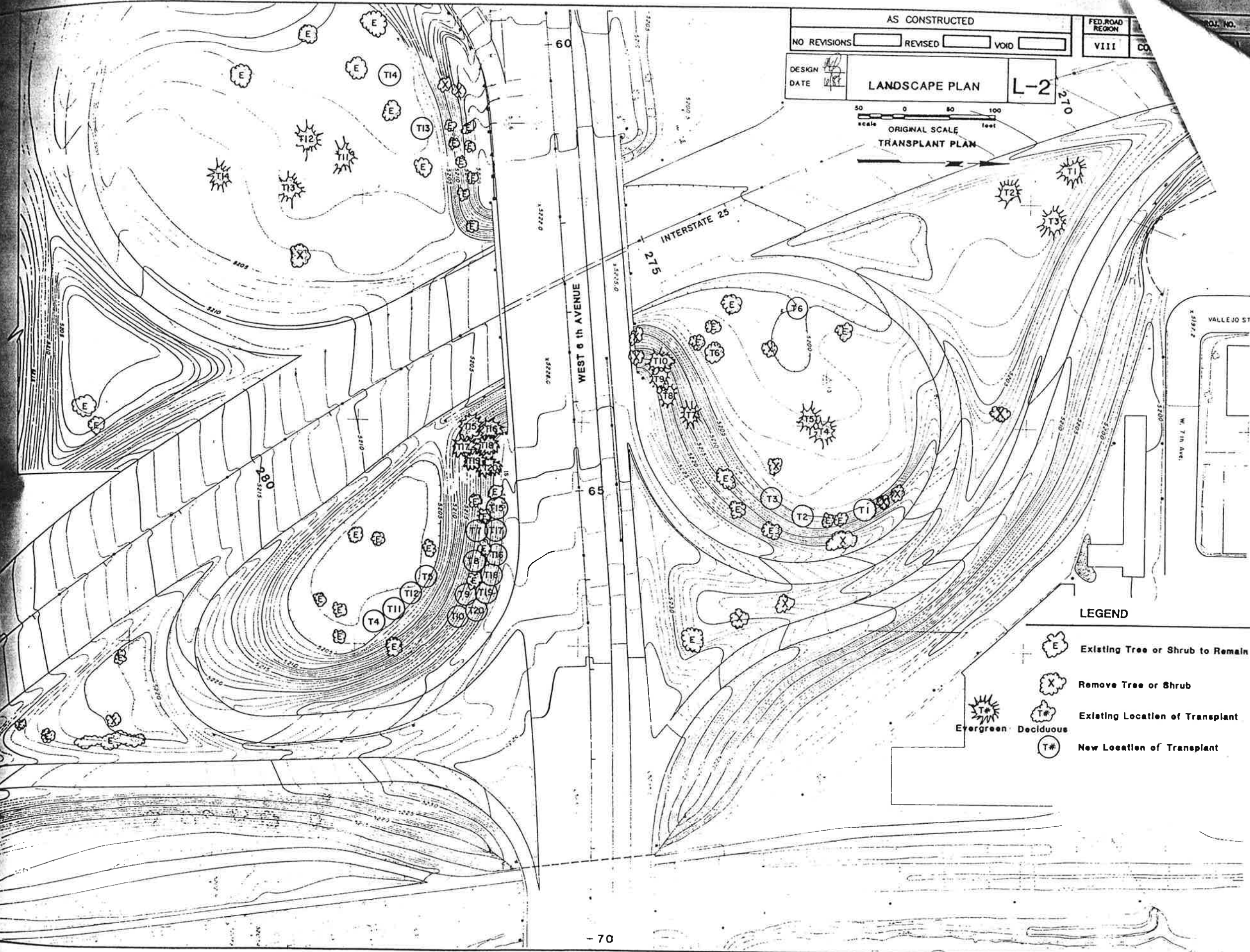
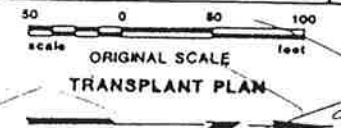
SEEDING (NATIVE)

Furnish and Install

COMMON NAME	BOTANICAL NAME	PLS. LBS./ACRES	PROJECT PLS. LBS.
TALL FESCUE	FESTUCA ARUNDINACEA "FALCON"	25	125
CANADA BLUEGRASS	POA COMPRESSA "REUBEN"	10	50
SMOOTH BROME	BROMUS INERMIS "LINCOLN"	25	125
TOTAL		60	300

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID
DESIGN	LANDSCAPE PLAN	
DATE	L-2	

FED. ROAD REGION	PROJECT NO.	SHEET NO.	S. TOTAL
VIII	CO	60	1-2



LEGEND

- Existing Tree or Shrub to Remain
 - Remove Tree or Shrub
 - Existing Location of Transplant
 - New Location of Transplant
- Evergreen Deciduous

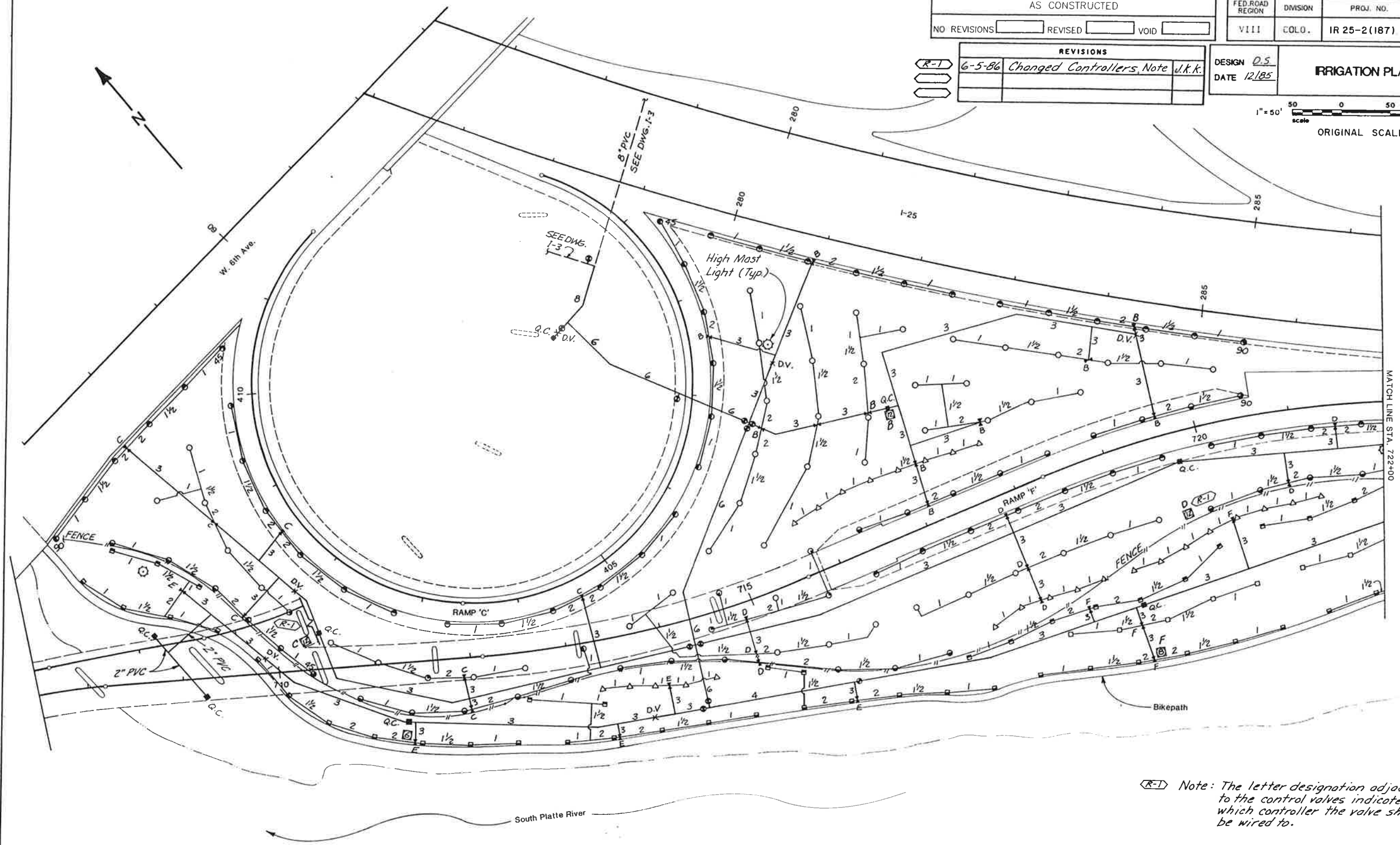
AS CONSTRUCTED			FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
NO REVISIONS	REVISED	VOID	VIII	COLO.	IR 25-2(187)	56	170

REVISIONS		
R-1	6-5-86	Changed Controllers Note J.K.K.

DESIGN D.S.
DATE 12/85

IRRIGATION PLAN

I-4



(R-1) Note: The letter designation adjacent to the control valves indicates which controller the valve should be wired to.

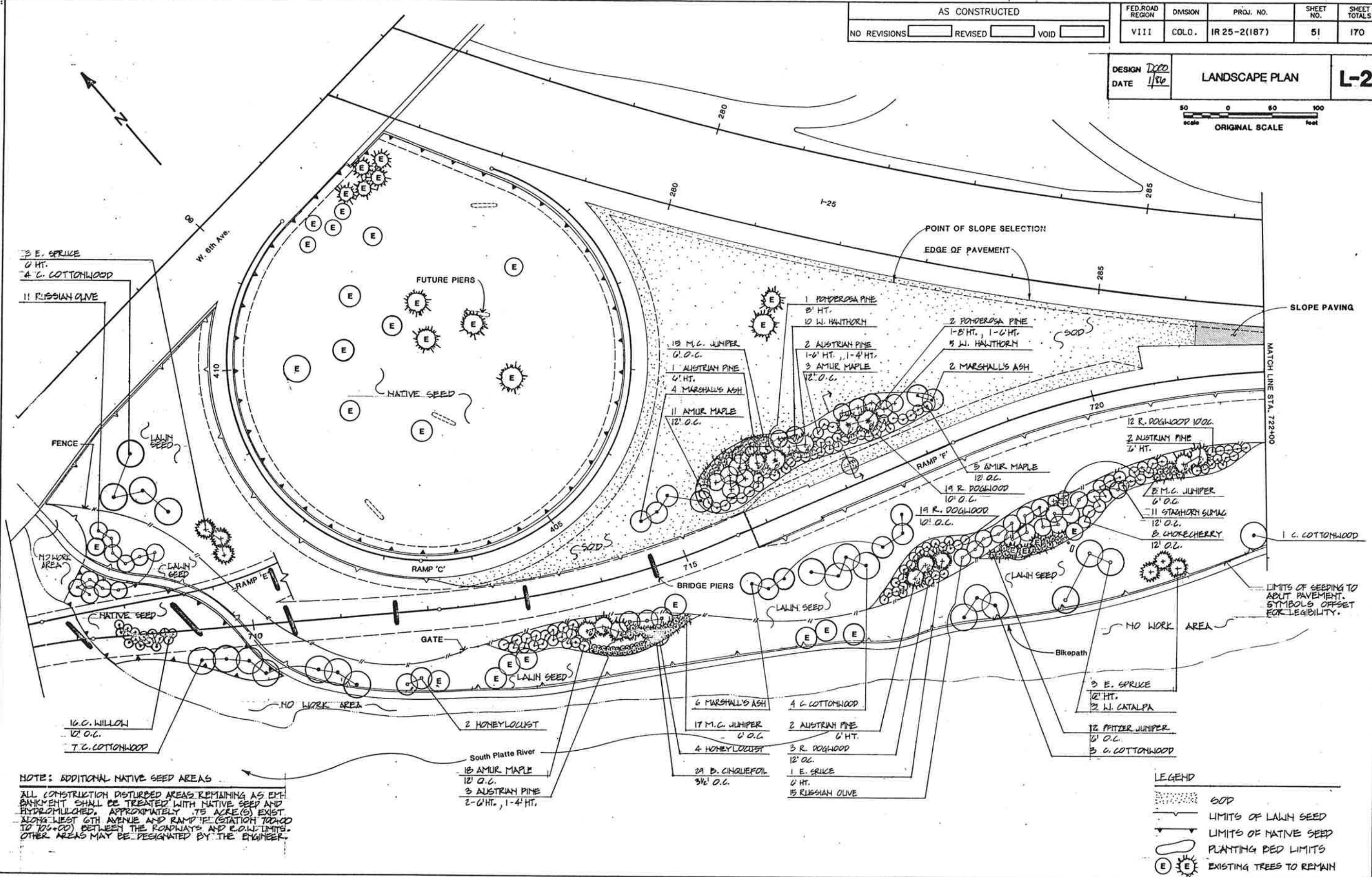
AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IR 25-2(187)	51	170

DESIGN DATE
1/80

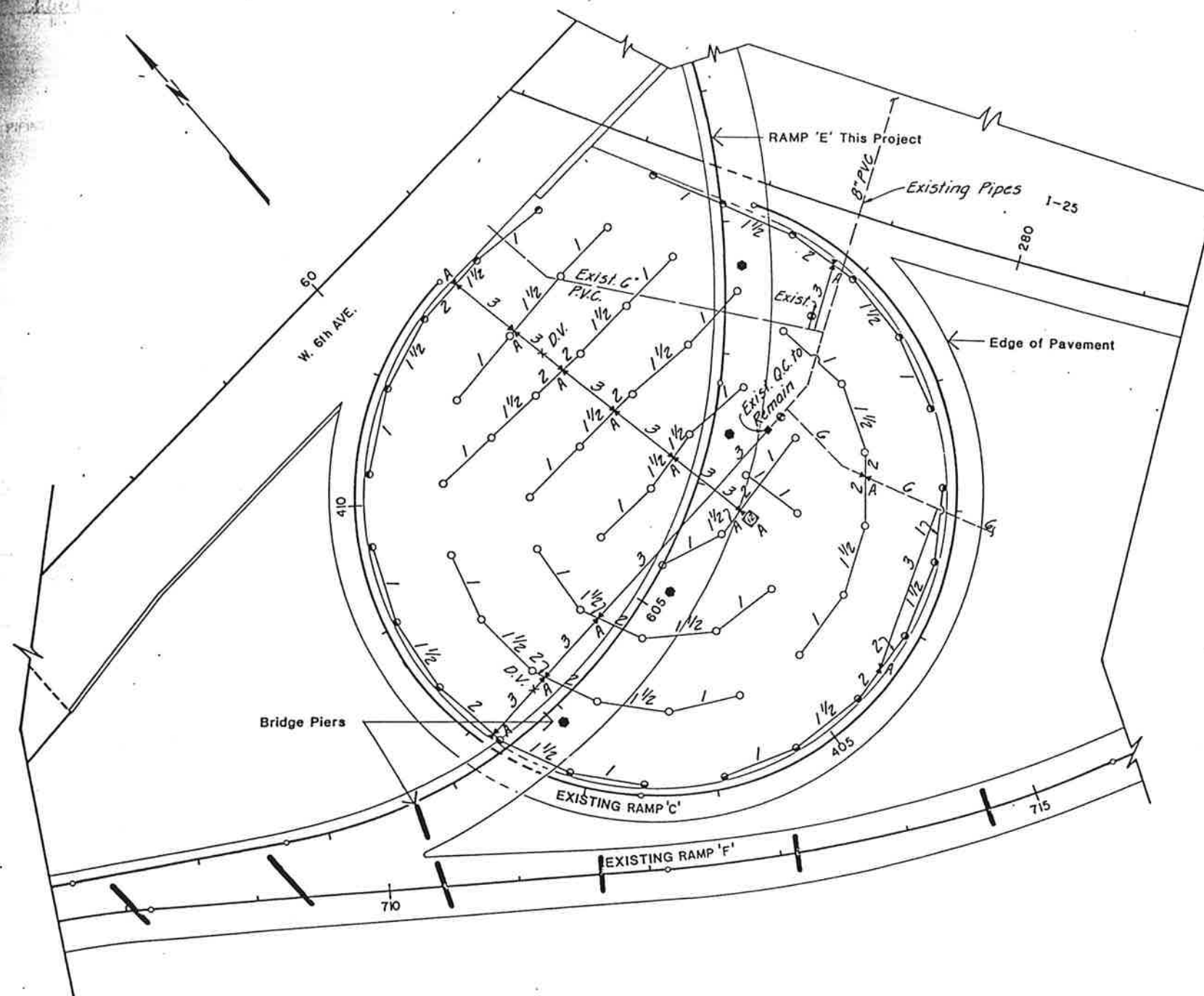
LANDSCAPE PLAN

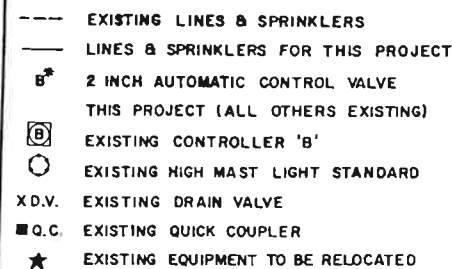
L-2



AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IR 25-2 (191)	60	
DESIGN			IRRIGATION PLAN	
DATE			I-2	



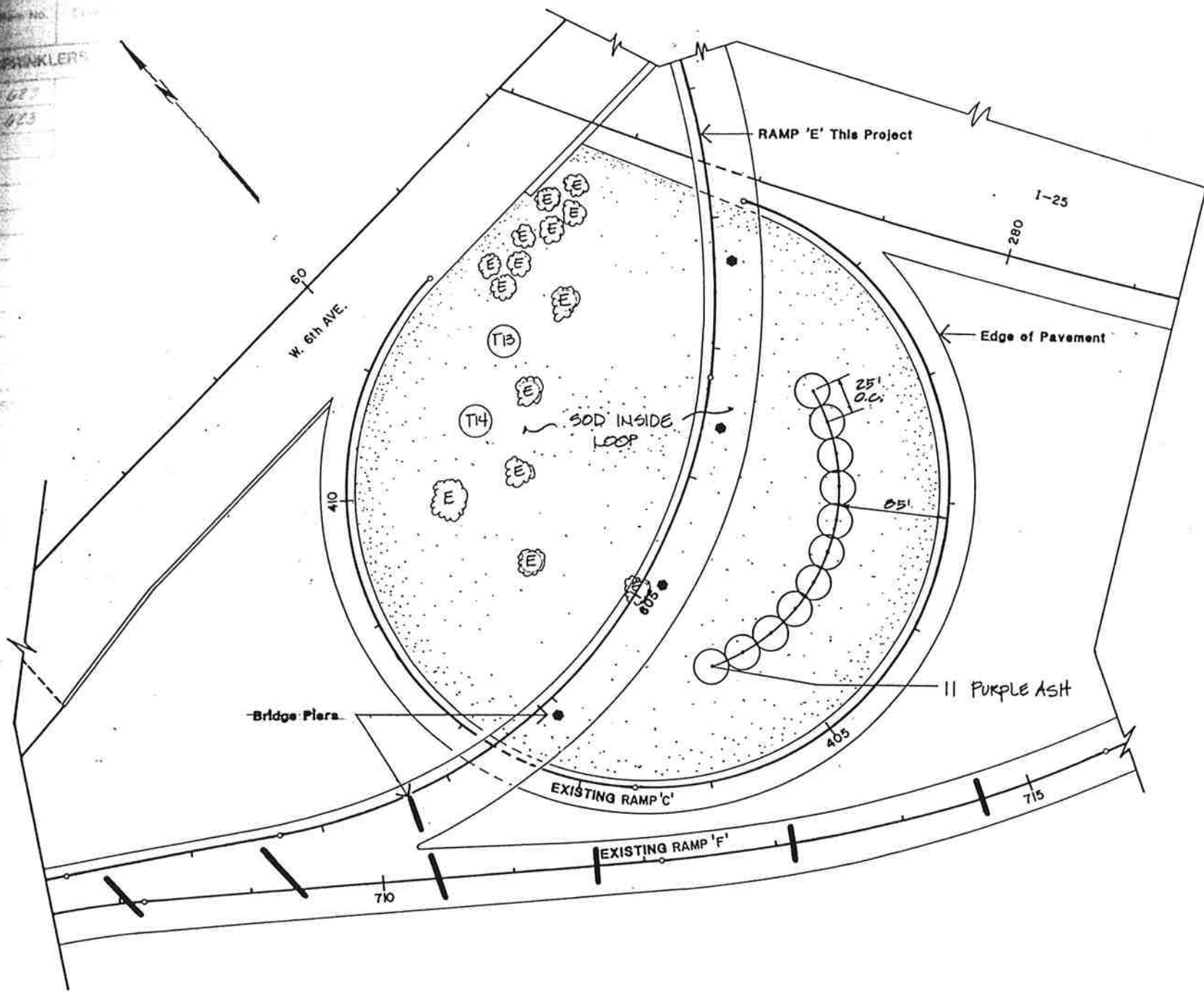
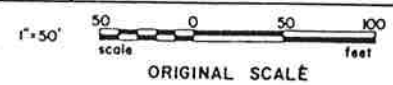


SUMMARY

Item No.	Description
623	SPRINKLERS
623	

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IR 25-2 (191)	58	
DESIGN			LANDSCAPE PLAN	
DATE			L-3	



STATE OF COLORADO
DEPARTMENT OF HIGHWAYS
DIVISION OF HIGHWAYS
P. M. PARKER, 126
MAY 1984

AS CONSTRUCTED			FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTAL
NO REVISIONS <input type="checkbox"/> REVISED <input type="checkbox"/> VOID <input type="checkbox"/>			VIII	COLG.	IR 25-2(187)	57	170

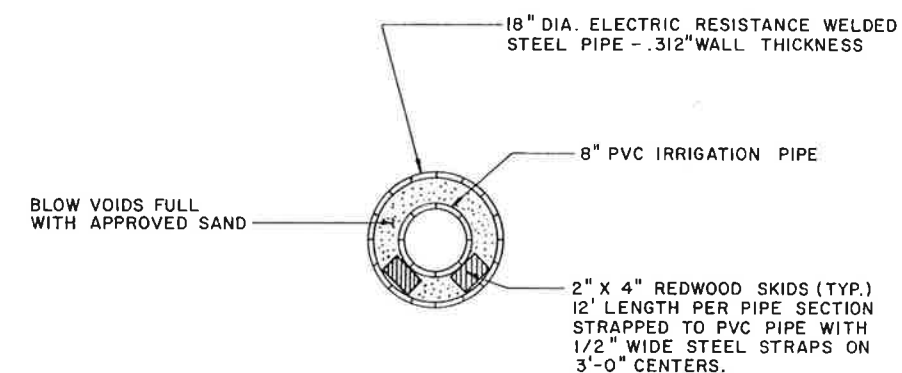
REVISIONS		
R-1	6-5-86	Added Detail J.K.K.

DESIGN D.S.
DATE 12/85

IRRIGATION PLAN

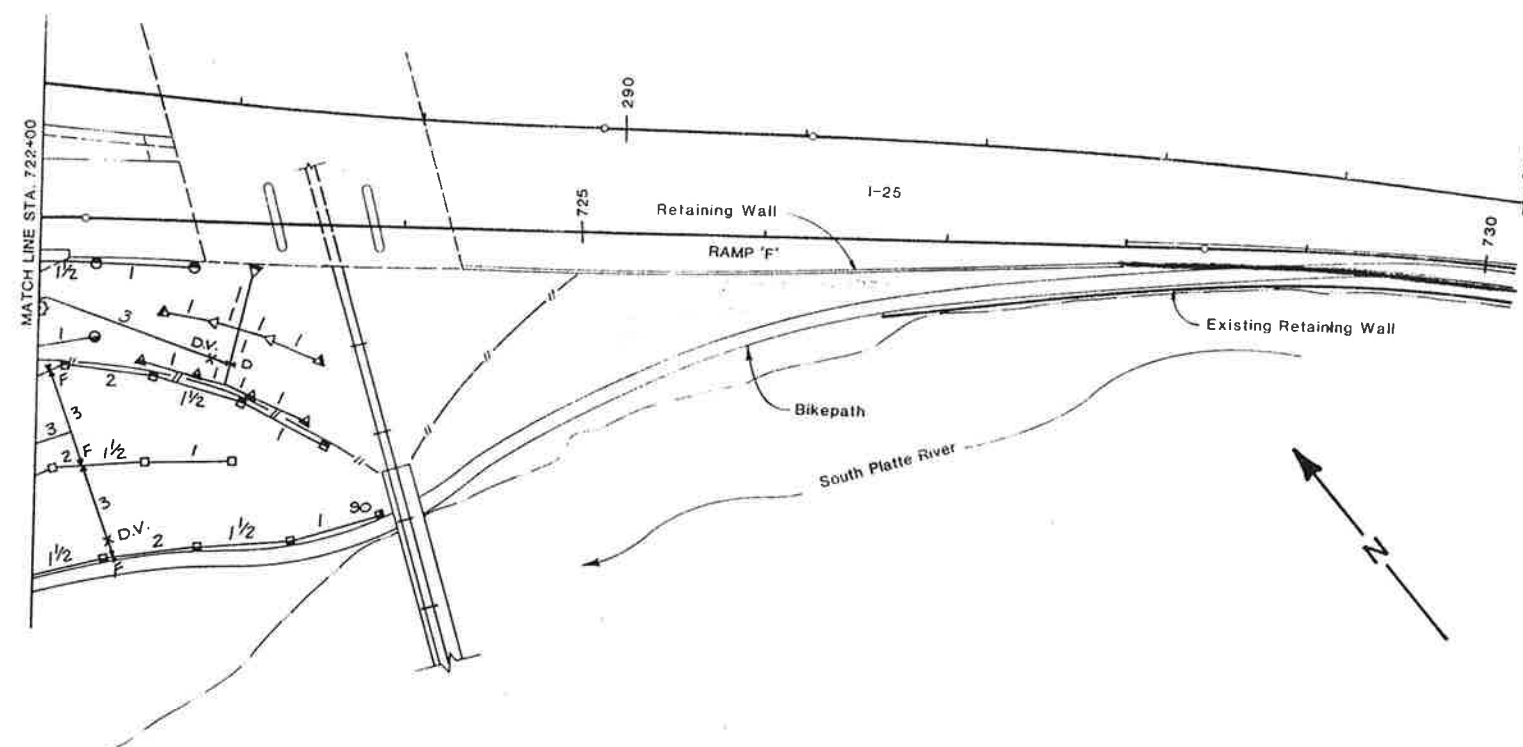
I-5

1" = 50'
scale 50 0 50 100 feet
ORIGINAL SCALE



JACKING DETAIL WELDED STEEL PIPE R-1

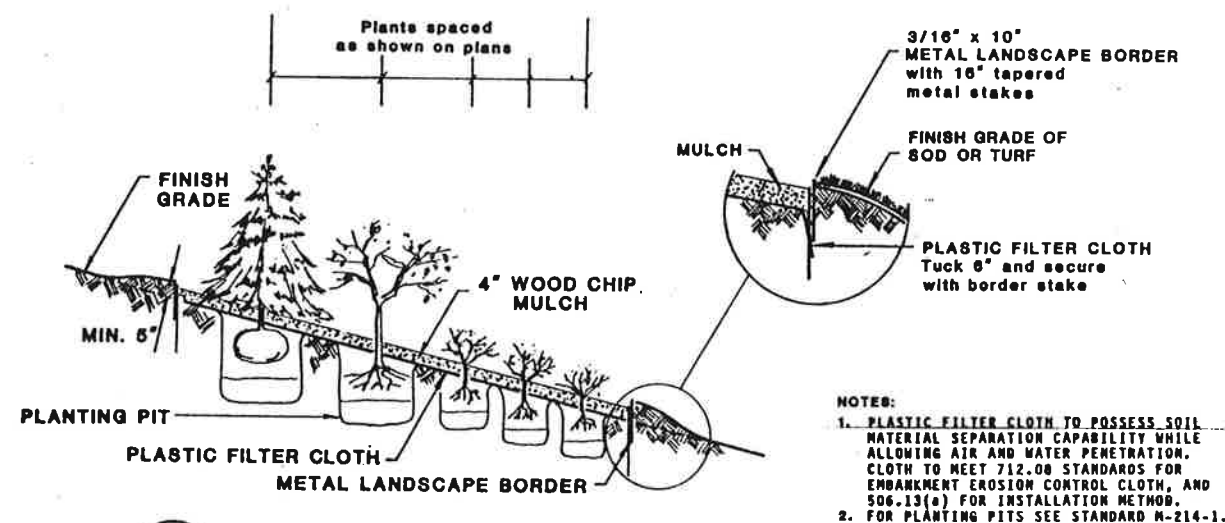
ALL MATERIALS SUBSIDIARY TO 18" WELDED STEEL PIPE



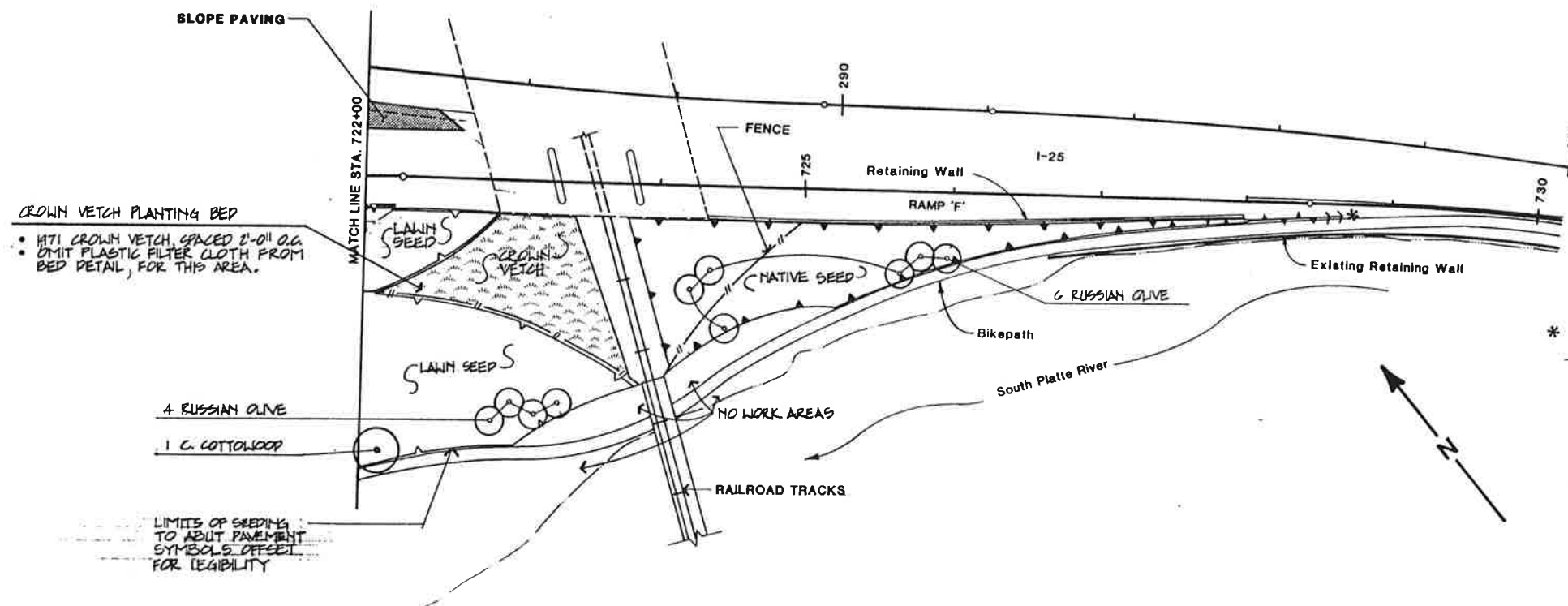
AS CONSTRUCTED			FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
NO REVISIONS	REVISED	VOID	VIII	COLO.	IR 25-2(187)	52	170

DESIGN DATE	1/82	LANDSCAPE PLAN AND DETAIL	L-3
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50 0 50 100
 scale ORIGINAL SCALE feet

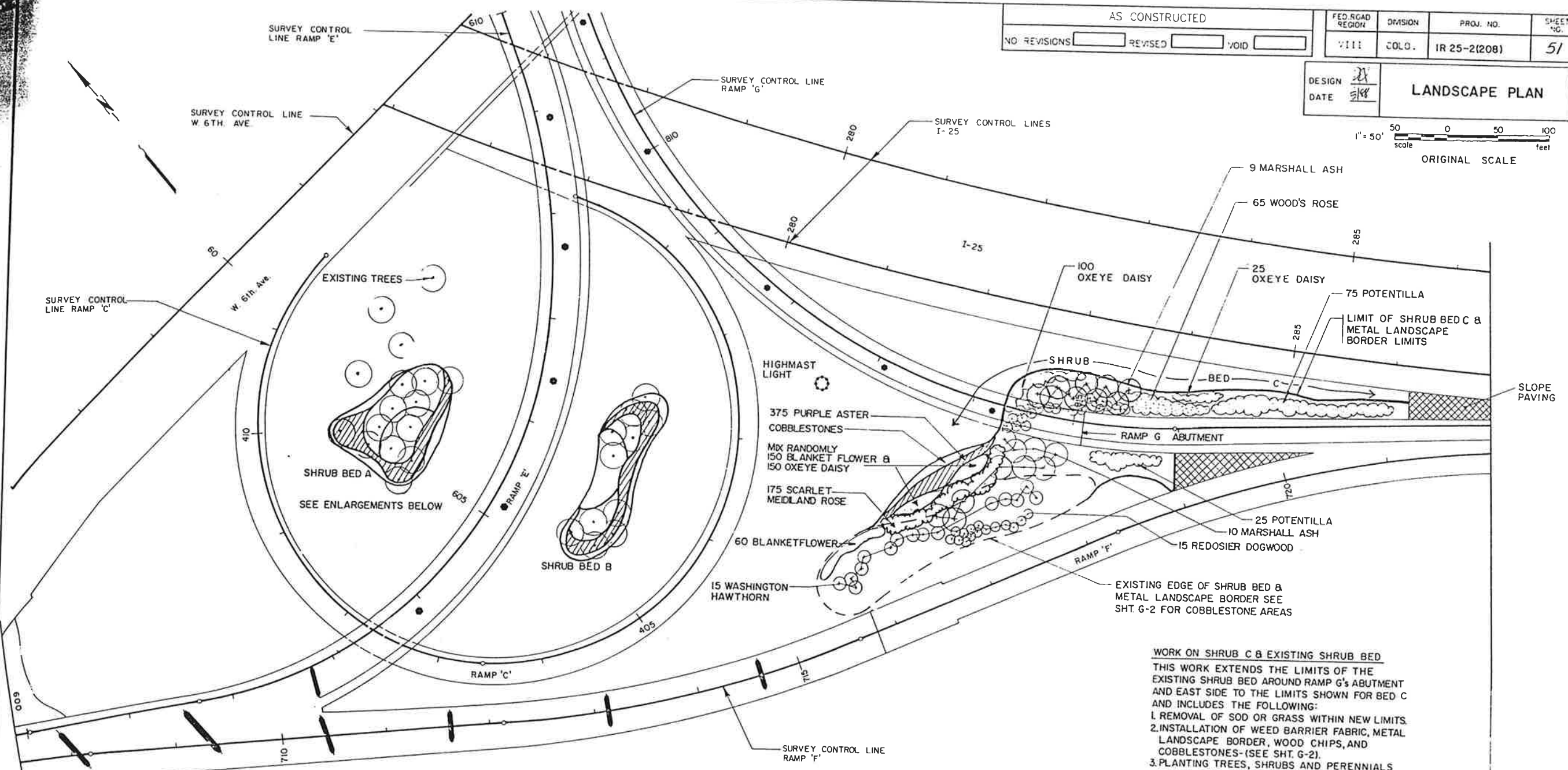
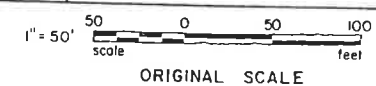


1 PLANTING BED DETAIL
 L-3 CROSS SECTION VIEW NO SCALE

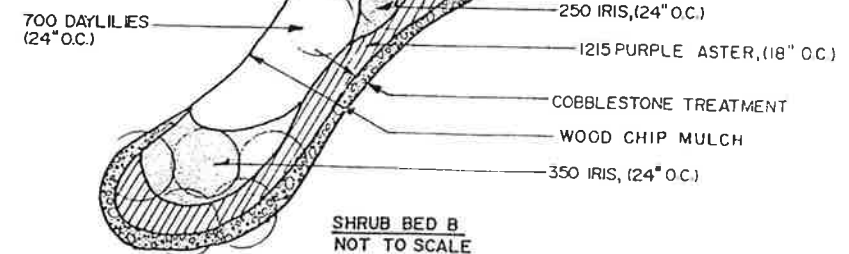
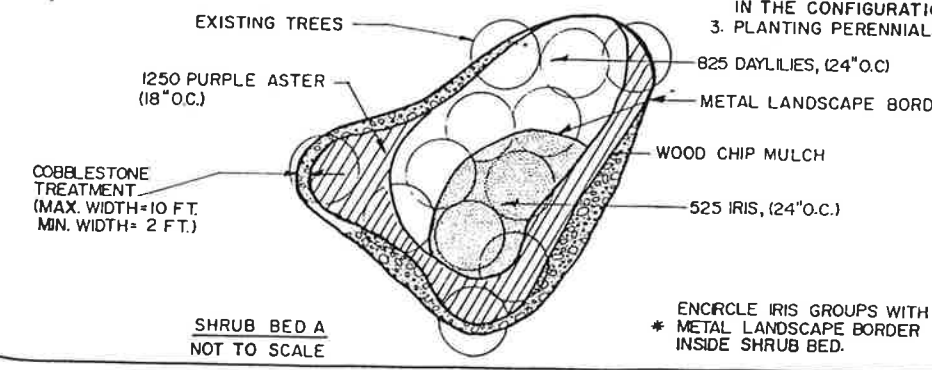


AS CONSTRUCTED				
NO REVISIONS	REVISED	VOID		
FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	SHEET TOTALS
VIII	COLO.	IR 25-2(208)	51	

DESIGN DATE	2/18/88	LANDSCAPE PLAN	L-2
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- WORK ON SHRUB BEDS A & B INCLUDES THE FOLLOWING:
1. REMOVAL OF SOD AND TREE SAUCERS AROUND EXISTING TREES INSIDE BED LIMITS.
 2. INSTALLATION OF WEED BARRIER FABRIC, METAL LANDSCAPE BORDER, COBBLESTONES AND WOODCHIP MULCH. IN THE CONFIGURATIONS SHOWN.
 3. PLANTING PERENNIALS WITHIN THE WOOD CHIP MULCH.



- WORK ON SHRUB C & EXISTING SHRUB BED
- THIS WORK EXTENDS THE LIMITS OF THE EXISTING SHRUB BED AROUND RAMP G'S ABUTMENT AND EAST SIDE TO THE LIMITS SHOWN FOR BED C AND INCLUDES THE FOLLOWING:
1. REMOVAL OF SOD OR GRASS WITHIN NEW LIMITS.
 2. INSTALLATION OF WEED BARRIER FABRIC, METAL LANDSCAPE BORDER, WOOD CHIPS, AND COBBLESTONES- (SEE SHT. G-2).
 3. PLANTING TREES, SHRUBS AND PERENNIALS WITHIN THE EXISTING SHRUB BED AND SHRUB BED C.

- SEEDING & PLANTING DETAILS
1. SEE GRADING PLANS FOR SEEDING LIMITS.
 2. SEE SHT. L-1 FOR SEED MIX.
 3. SEE SHT. L-3 FOR SHRUB BED DETAILS AND M-214-1 STANDARD FOR PLANTING DETAILS.